



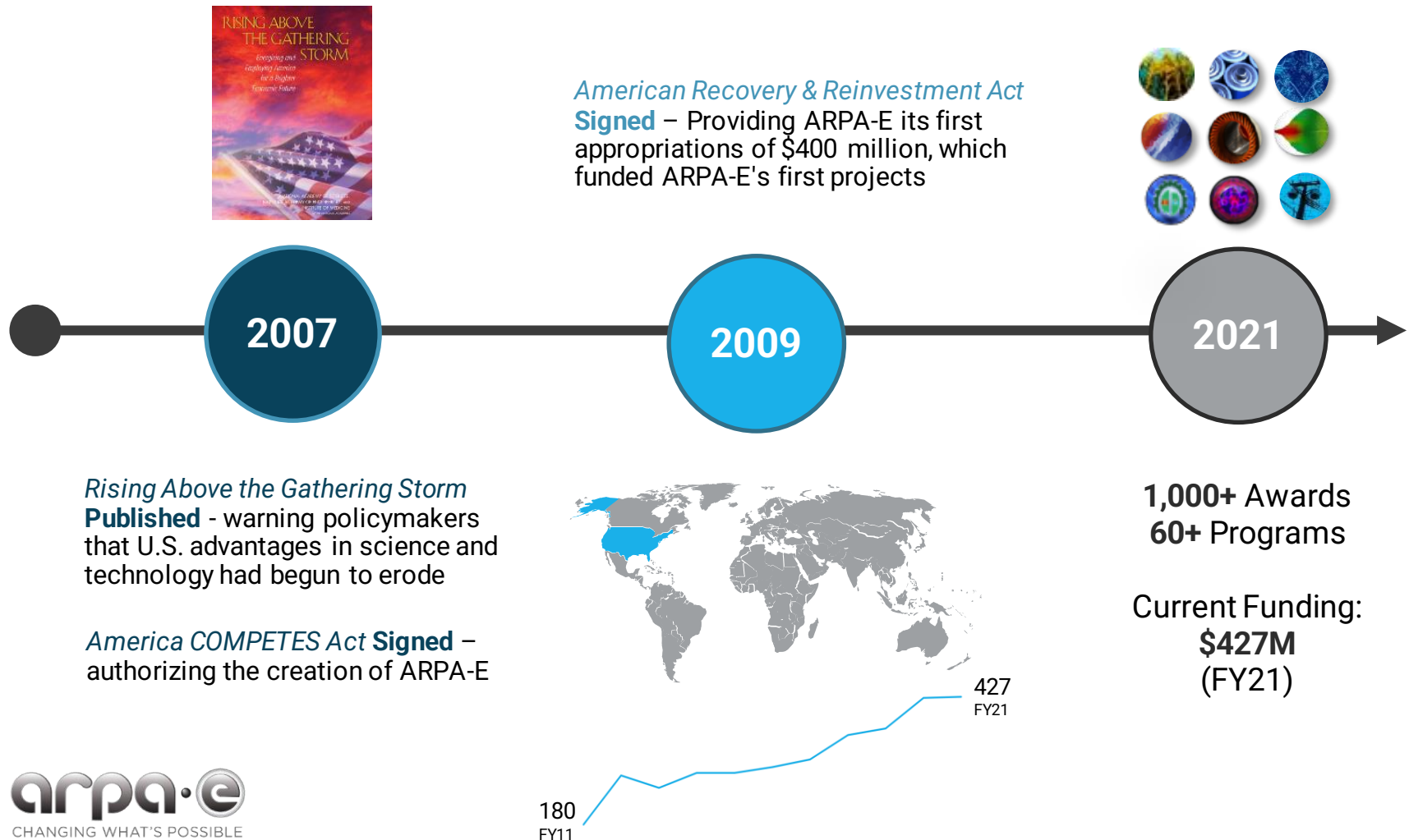
# Welcome!

Dr. Jennifer Gerbi  
Acting Director and Deputy Director for Technology

August 31, 2021

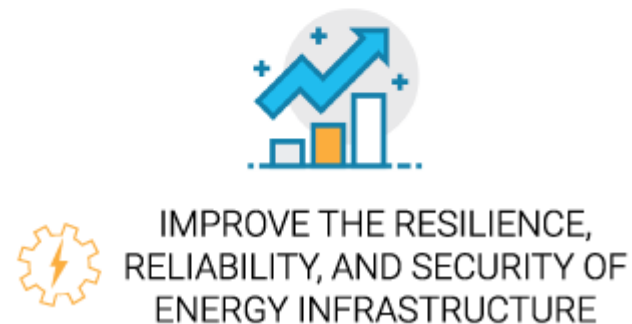
# ARPA-E History

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy to fund advanced energy R&D.



# ARPA-E Mission

**Goal 1:** To enhance the economic and energy security of the United States through the development of energy technologies that—



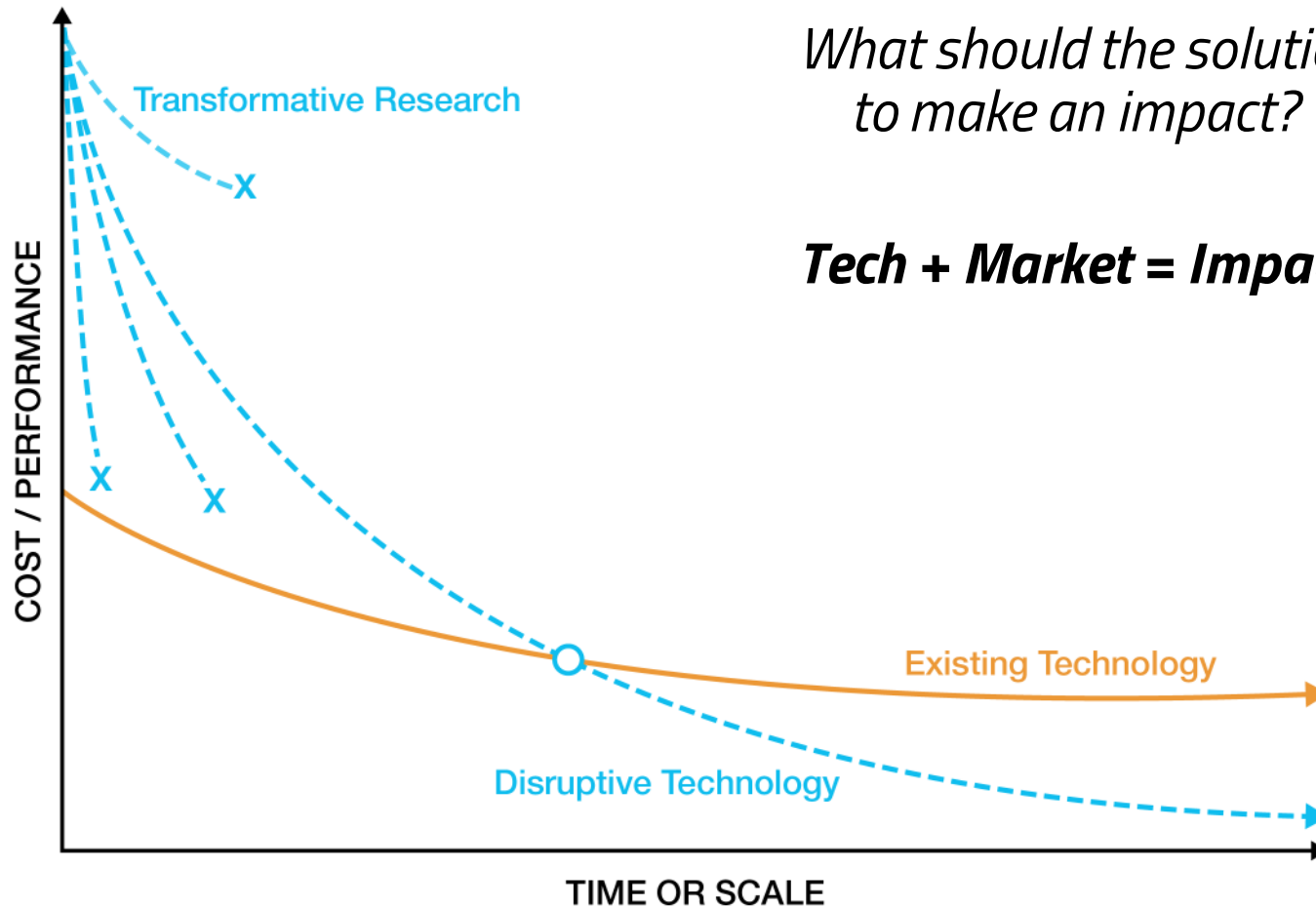
**Goal 2:** To ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

# We are high-risk, high reward

*What problem should be solved...  
And why?*

*What should the solution look like  
to make an impact?*

**Tech + Market = Impact**



# ARPA-E: What makes us different

## Our Culture Enables our Mission.

- Startup-esque approach
- Term limited, core group of empowered Program Directors
- Term limited T2M Advisors, PhD Fellows work seamlessly with Program Directors
- Collaborative instead of competitive
- Structure: Flat, lean, no 'roadmaps', no top-down direction
- Comfort with risk and ambiguity crucial – TRUST is essential.



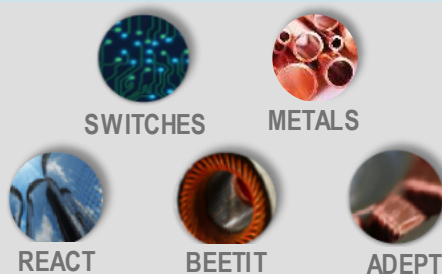
ACTIVE

ALUMNI

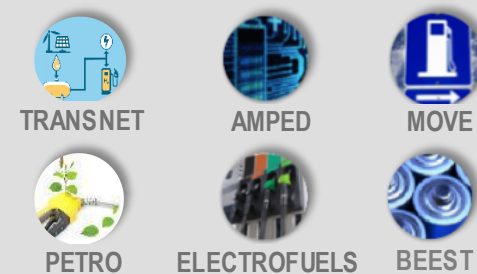
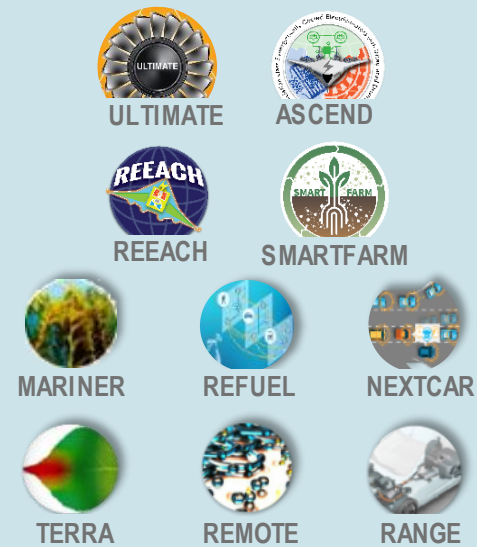
## ELECTRICITY GENERATION & DELIVERY



## EFFICIENCY



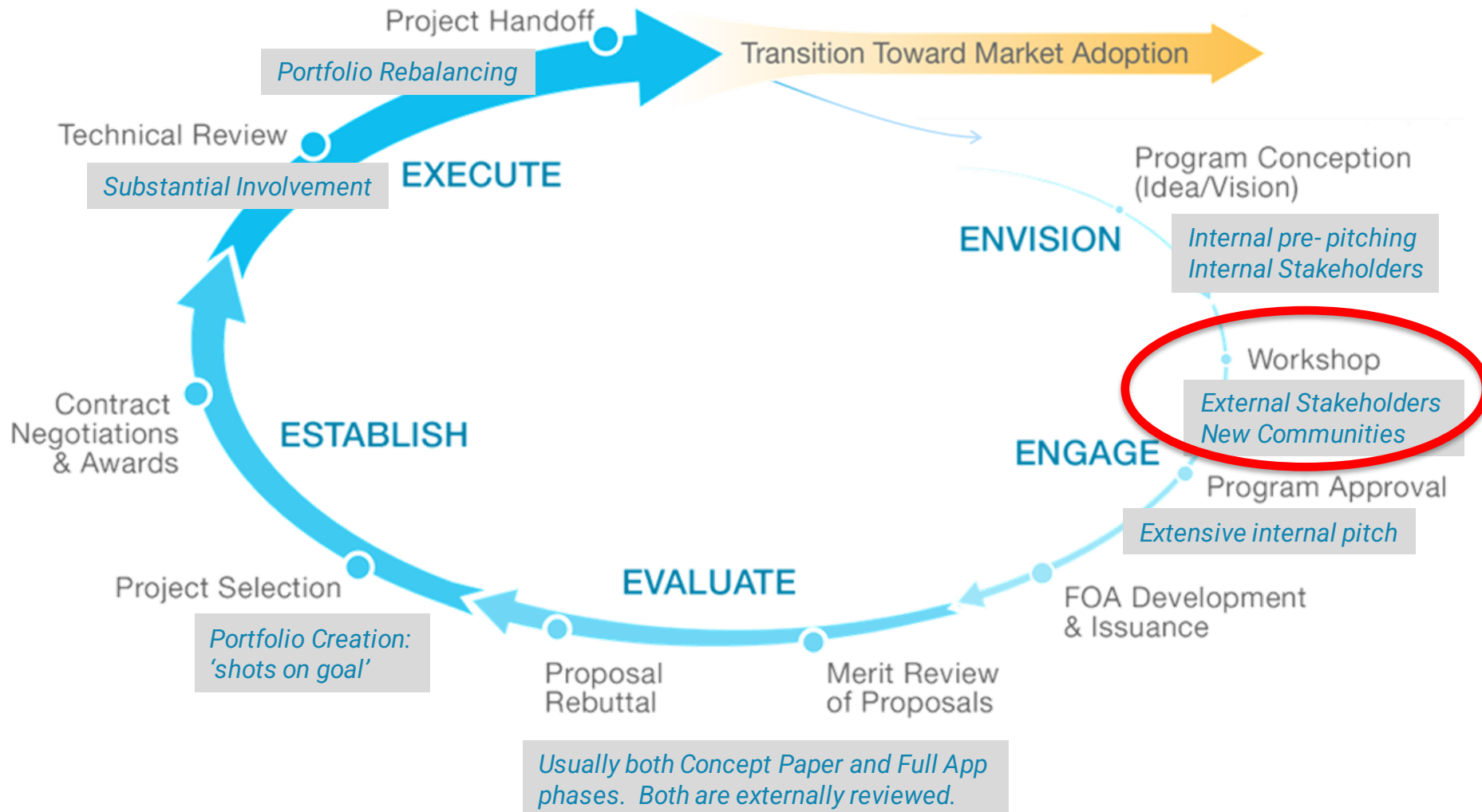
## TRANSPORTATION

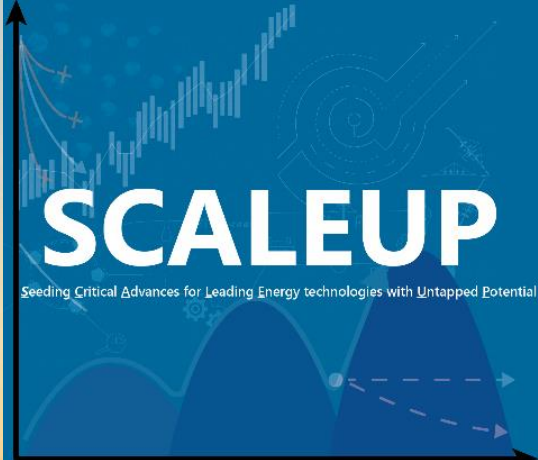


**+ OPEN 2009, 2012, 2015, 2018, & 2021 Solicitations**  
**+ Seedlings, Competitions, Complimentary Exploratory Topics**  
**+ SCALEUP 2020**



# Life of an ARPA-E Program





**First-of-its-kind initiative at  
ARPA-E to translate  
previously funded ARPA-E  
technologies to  
commercial viability**

**10 Awardees**

**\***

**\$70+ million**

**\***

**Takes the tech de-risked in  
the lab to the next step**

**\***

**SCALEUP selectees must  
partner with potential  
customers, end-users,  
suppliers, etc.**



# ARPA-E Impact Indicators 2021

Since 2009  
ARPA-E has  
provided

**\$2.79 billion**

in R&D funding to  
more than **1,190 projects**



**181 projects**

have attracted  
more than

**\$5.4 billion**

in private-sector follow-on funding



**92 companies**

formed by  
**ARPA-E  
projects**



**14 exits**

market valuations worth

**\$3.9 billion**

from mergers, acquisitions, and IPOs



**242 projects**

have **partnered**  
**with other**  
**government**  
**agencies**  
for further  
development



**4,871**

peer-reviewed  
**journal articles**  
from ARPA-E  
projects



**751 patents**

issued by U.S.  
Patent and  
Trademark Office



**242 licenses**

reported from  
ARPA-E projects



As of May 2021

We want to hear from YOU.

There is a reason you are all here.

We also want this to be a new community –  
please reach out to each other!



U.S. DEPARTMENT OF  
**ENERGY**

<https://arpa-e.energy.gov>